

2002
Virginia Department of Transportation
Daily Traffic Volume Estimates

Special Locality Report
138

City of Winchester

Prepared By
Virginia Department of Transportation
Mobility Management Division

In Cooperation With
U.S. Department of Transportation
Federal Highway Administration

Virginia Department of Transportation
Mobility Management Division
Traffic Monitoring Section

The Virginia Department of Transportation (VDOT) conducts a program where traffic count data are gathered from sensors in or along streets and highways and other sources. From these data, estimates of the average number of vehicles that traveled each segment of road are calculated. VDOT periodically publishes booklets listing these estimates.

One of these booklets, titled "Average Daily Traffic Volumes with Vehicle Classification Data, on Interstate, Arterial and Primary Routes" includes a list of each Interstate and Primary highway segment with the estimated Annual Average Daily Traffic (AADT) for that segment. AADT is the total annual traffic estimate divided by the number of days in the year. This booklet also includes information such as estimates of the percentage of the AADT made up by 6 different vehicle types, ranging from cars to double trailer trucks; estimated Annual Average Weekday Traffic (AAWDT), which is the number of vehicles estimated to have traveled the segment of highway during a 24 hour weekday averaged over the year; as well as Peak Hour and Peak Direction factors used by planners to formulate design criteria.

In addition to the Primary and Interstate publication, one hundred books are published periodically, one for each of 100 areas across the state defined by VDOT for record-keeping purposes. These books include traffic volume estimates for roads within the county, cities, and towns within the area. These books are titled "Daily Traffic Volumes Including Vehicle Classification Estimates, where available; Jurisdiction Report numbers 00 through 99".

Also available are a number of reports summarizing the average Vehicle Miles Traveled (VMT) in selected jurisdictions and other categories of highways. There are many different ways to present traffic volume summary information. Because the user determines the value of each presentation, the reports have been redesigned based on user requests and feedback. The people at VDOT Mobility Management's Traffic Monitoring Section who produce these books welcome requests for other helpful ways of presenting the summary information.

A compact disc (CD) is available that includes files in the Adobe® Portable Document Format (PDF) that can be displayed, searched, and printed using common desktop computer equipment. The CD includes the publications described above as well as a number of other reports, including specialized VMT summaries and smaller AADT reports for each city and town separately.

Publication Notes

Parallel Roads

For road inventory and management purposes, some roadways are counted separately by direction and have separately published traffic estimates for each direction of travel. Examples of such roadways are the interstate system and routes with separated facilities and (usually) one-way traffic facilities in urban areas. In these publications, they are referred to as parallel roads. As a convenience for the users of the publication, the listing for segments of roads with parallel segments are published with both the traffic estimates for their own direction of travel (e.g. I-95 Northbound) as well as the estimate of the total of all traffic on the same route including parallel roadways (all directions of I-95). The publication will have a “Combined Traffic Estimates for Parallel Roadways on this Route” or “Combined Traffic” identifiers for the combined direction of travel estimates.

Roadways such as I-395 with a North segment, a South segment and a separate Reversible lane segment will have the estimate for more than two parallel roadways included in the entire combined traffic estimate.

Some routes have very complicated paths through cities and towns. These parallel paths may be too complex to allow a relationship between nearby sections of the opposite direction on the same route. In this case, to indicate that the traffic estimates for such a road segment may not include all directions of traffic on that route, the line that would list the combined values will indicate “NA” for not available.

VDOT’s traffic monitoring program includes more than 100,000 segments of roads and highways ranging from several mile sections of Interstate highways to very short sections of city streets. Due to problems experienced obtaining some traffic count data, and the level of quality necessary to maintain confidence in the data, no estimate is currently available for some segments of roadway. These segments are included in the publications indicating “NA” for not available. It is the intention of the VDOT’s Mobility Management Traffic Monitoring group to obtain the data necessary and to report traffic volume estimates on all road segments included in these publications.

Many of the road segments in this program are local secondary roads. The amount and detail of data collected on these roads are not as great as the data collected on higher volume roads. The vehicle classification, average weekday traffic volumes, and the theoretical design hour traffic volumes are not calculated for these roads. The publications indicate “NA” for the information that is not available.

This publication is based on a traffic monitoring program initiated in 1997. Because the data collection techniques and statistical evaluation processes are different than those used in previous years, comparison with previous publications may be misleading.

Glossary of Terms:

Route: The Route Number assigned to this segment of roadway with the master inventory route number if this is an overlapping route, with official street or highway name if available.

Length: Length of the traffic segment in miles.

AADT: Annual Average Daily Traffic. The estimate of typical daily traffic on a road segment for all days of the week, Sunday through Saturday, over the period of one year.

QA: Quality of AADT:

- A Average of Complete Continuous Count Data
- B Average of Selected Continuous Count Data
- F Factored Short Term Traffic Count Data
- G Factored Short Term Traffic Count Data with Growth Element
- H Historical Estimate
- M Manual Uncounted Estimate
- N AADT of Similar Neighboring Traffic Link
- O Provided By External Source
- R Raw Traffic Count, Unfactored

4Tire: Percentage of the traffic volume made up of motorcycles, passenger cars, vans and pickup trucks.

Bus: Percentage of the traffic volume made up of busses.

2Axle Truck: Percentage of the traffic volume made up of 2 axle single unit trucks (not including pickups and vans).

3+Axle Truck: Percentage of the traffic volume made up of single unit trucks with three or more axles.

1Trail Truck: Percentage of the traffic volume made up of units with a single trailer.

2Trail Truck: Percentage of the traffic volume made up of units with more than one trailer.

QC: Quality of Classification Data:

- A Average of Complete Continuous Count Data
- B Average of Selected Continuous Count Data
- C Short Term Classified Traffic Count Data
- F Factored Short Term Traffic Count Data
- H Historical Estimate
- M Mass Collective Average
- N Classification Estimates of Similar Neighboring Traffic Link

Peak Hour: The estimate of the traffic volume for the 30th highest traffic volume occurring in a one-year period divided by the AADT for the same one-year period.

QK: Quality of the Peak Hour estimate:

- A Factor based on 30th Highest Hour Observed During 12 Months of Continuous Traffic Data
- B Factor based on 30th Highest Hour Observed During Less than 12 Months of Continuous Traffic Data
- F Factor based on Highest Hour Collected at in a 48 Hour Weekday Period
- M Factor based on Manual Estimate of 30th Highest Hour
- N Peak Hour Factor of Similar Neighboring Traffic Link
- O Provided by External Source

Dir Factor: The estimate of the portion of the traffic volume traveling in the peak direction during the Peak Hour..

AAWDT: Average Annual Weekday Traffic. The estimate of typical traffic over the period of one year for the days between Monday through Thursday inclusive.

QW: Quality of AAWDT:

- A Average of Complete Continuous Count Data
- B Average of Selected Continuous Count Data
- F Factored Short Term Traffic Count Data
- G Factored Short Term Traffic Count Data with Growth Element
- M Manual Uncounted Estimate
- N AAWDT of Similar Neighboring Traffic Link
- O Provided by External Source

Year: Year for which the published values are appropriate. If the Quality of AADT (QA) is "R", the year is the year that the raw traffic count was collected, and if available,

Route Shield Legend

Route Systems

North 	Interstate Route	Traffic volume data for Interstate Routes and some other routes are reported separately by direction, as well as combined.
	US Route	
	Virginia State Route	
	Secondary Route	

Special Routes

Bus 	Bus - Business Route
	Bypas - Bypass Route
	Truck - Truck Route
ALT 	ALT - Alternate Route
	Wve - Wye Route connector
	P - Parallel Route; Southbound or Westbound direction lanes of a numbered route where they are on a different road facility than the other direction.
	The VDOT Maintenance Jurisdiction number is displayed below the Secondary Route Number if the Maintenance Jurisdiction is different than the jurisdiction in the title of the report.

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Annual Average Daily Traffic Volume Estimates By Section of Route
City of Winchester

Route	Length	AADT	QA	Year
City of Winchester				
From: US 50, US 522 Par. Braddock St				
7 Boscawen St	0.18	3300	F	2002
Combined Traffic:		10000	F	
To: US 11 Cameron St				
From: RT 11				
7 11 Cameron St	0.17	11000	F	2002
Combined Traffic:		NA		
To: US 11 Cameron St				
From: US 11 Cameron St				
7 Piccaddilly St	0.18	11000	F	2002
To: East Lane				
From: Piccaddilly St				
7 East Lane	0.02	10000	F	2002
To: Fairfax Lane				
From: Highland Ave				
7 National Ave	0.32	13000	F	2002
To: 138-5213 Pleasant Valley Rd				
From: 138-5213 Pleasant Valley Rd				
7 Berryville Ave	0.79	17000	F	2002
To: Ross St				
From: Ross St				
7 Berryville Ave	0.16	30000	F	2002
To: ECL Winchester, I-81				
From: Braddock St				
7 Piccaddilly St	0.18	7200	F	2002
Combined Traffic:		0	F	
To: Cameron St				
From: SCL Winchester				
11 Valley Ave	1.37	16000	F	2002
To: Middle Rd				
From: Middle Rd				
11 Valley Ave	0.12	22000	F	2002
To: Weems Lane				
From: Weems Lane				
11 Valley Ave	0.67	17000	F	2002
To: Bellview Ave				
From: Bellview Ave				
11 Valley Ave	0.59	14000	F	2002
To: US 11 Par Braddock St				
From: US 11 Par Braddock St				
11 Valley Ave	0.09	3200	F	2002
Combined Traffic:		14000	F	
To: Gerrard St				
From: Valley Ave				
11 Gerrard St	0.10	15000	F	2002
To: Cameron St				
From: US 50 Gerrard St				
11 Cameron St	0.53	6000	F	2002
Combined Traffic:		14000	F	
To: Boscawen St				
From: Boscawen St				
11 Cameron St	0.17	11000	F	2002
Combined Traffic:		NA		
To: Piccaddilly St				
From: Piccaddilly St				
11 Cameron St	0.83	4000	F	2002
Combined Traffic:		9300	F	
To: Loudoun St				
From: Cameron St				
11 Martinsburg Pike	0.31	13000	F	2002
To: NCL Winchester				
From: Valley Ave				
11 Braddock St	0.09	11000	F	2002
Combined Traffic:		14000	F	
To: Gerrard St				

Route	Length	AADT	QA	Year
City of Winchester				
From: Gerrard St				
11 50 Braddock St	0.53	8500	F	2002
Combined Traffic:		14000	F	
To: Boscawen St				
From: Piccaddilly St				
11 Braddock St	0.36	3000	F	2002
Combined Traffic:		7100	F	
To: North Ave				
From: Braddock St				
11 North Ave	0.03	500	F	2002
Combined Traffic:		0	F	
To: Loudoun St				
From: North Ave				
11 Loudoun St	0.30	4800	F	2002
Combined Traffic:		8800	F	
To: Wyck St				
From: Wyck St				
11 Loudoun St	0.24	5300	F	2002
Combined Traffic:		9300	F	
To: Cameron St				
From: ECL Winchester				
17 50 Millwood Ave	0.09	26000	F	2002
To: I-81				
From: Maintenance Jurisdiction Change				
17 50 Jubal Early Drive	0.15	26000	F	2002
To: I-81				
From: Jubal Early Dr				
17 50 Millwood Ave	0.80	17000	F	2002
To: Cameron St				
From: WCL Winchester				
50 Amherst St	0.64	20000	F	2002
To: Fox Dr				
From: Fox Dr				
50 Amherst St	0.75	17000	F	2002
To: Boscawen St				
From: Amherst St				
50 Boscawen St	0.37	16000	F	2002
To: Braddock St				
From: Boscawen St				
50 Braddock St	0.53	8500	F	2002
Combined Traffic:		14000	F	
To: Gerrard St				
From: Braddock St				
50 Gerrard St	0.07	11000	F	2002
To: Valley Ave				
From: Valley Ave				
50 11 Gerrard St	0.10	15000	F	2002
To: RT 11 P				
From: Cameron St				
50 Millwood Ave	0.80	17000	F	2002
To: Jubal Early Dr				
From: Millwood Ave				
50 Jubal Early Drive	0.15	26000	F	2002
To: I-81				
From: I-81				
50 Millwood Ave	0.09	26000	F	2002
To: ECL Winchester				
From: Braddock St				
50 7 Piccaddilly St	0.18	7200	F	2002
Combined Traffic:		0	F	
To: Cameron St				
From: Piccaddilly St				
50 11 Cameron St	0.17	11000	F	2002
Combined Traffic:		NA		
To: Boscawen St				

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City of Winchester

Route	Length	AADT	QA	Year
City of Winchester				
From: Boscawen St				
(50) (11) Cameron St	0.53	6000	F	2002
Combined Traffic:		14000	F	
To: US 50 Gerrard St				
North				
From: SCL Winchester				
(81)	0.07	28000	A	2002
Combined Traffic:		55000	A	
To: NCL Winchester				
South				
From: SCL Winchester				
(81)	0.07	27000	A	2002
Combined Traffic:		55000	A	
To: NCL Winchester				
From: ECL Winchester				
(522) (50) Millwood Ave	0.09	26000	F	2002
To: I-81				
From: Maintenance Jurisdiction Change				
(522) (50) Jubal Early Drive	0.15	26000	F	2002
To: I-81				
From: Jubal Early Dr				
(522) (50) Millwood Ave	0.80	17000	F	2002
To: N RT 50				
(522) (11) Cameron St	0.53	6000	F	2002
Combined Traffic:		14000	F	
To: Boscawen St				
(522) (11) Cameron St	0.17	11000	F	2002
Combined Traffic:		NA		
To: Piccadilly St				
From: Cameron St				
(522) (7) Piccadilly St	0.18	7200	F	2002
Combined Traffic:		0	F	
To: RT 7 P/RT 50				
From: Braddock St				
(522) Piccadilly St	0.19	5900	F	2002
To: Fairmont Ave				
From: Piccadilly St				
(522) Fairmont Ave	0.22	6700	F	2002
To: Commercial St				
(522) Fairmont Ave	0.55	12000	F	2002
To: NCL Winchester				
From: Cameron St				
(522) (11) Gerrard St	0.10	15000	F	2002
To: Valley Ave				
(522) (50) Gerrard St	0.07	11000	F	2002
To: Braddock St				
From: Gerrard St				
(522) (50) Braddock St	0.53	8500	F	2002
Combined Traffic:		14000	F	
To: Boscawen St				
From: Pleasant Valley Rd				
(1) Woodstock Ln	0.63	1800	F	2002
To: ECL Winchester				
From: Berryville Ave				
(2) Fort Collier Drive	0.16	7200	F	2002
To: NCL Winchester				
From: Handley Blvd				
(3) Washington St	0.64	4400	F	2002
To: Piccadilly St				

Route	Length	AADT	QA	Year
City of Winchester				
From: Braddock St				
(4) Handley Blvd	0.08	12000	F	2002
To: Washington St				
From: Valley Ave				
(5) Tevis Ave	0.21	8100	F	2002
To: Cedarmeade Ave				
From: Tevis St				
(6) Cedarmeade Ave	0.55	1500	F	2002
To: Papermill Rd				
From: Handley Ave				
(7) Jubal Early Dr	0.65	5100	F	2002
To: US 11 Valley Avenue				
(7) Jubal Early Dr	1.13	19000	F	2002
To: US 50				
From: WCL Winchester				
(5200) Cedar Creek Grade	0.52	12000	F	2002
To: Valley Ave				
(5200) Weems Ln	0.50	13000	F	2002
To: Papermill Rd				
From: Valley Ave				
(5201) Middle Rd	1.01	3900	F	2002
To: WCL Winchester				
From: US 50				
(5203) Fox Dr	0.86	3500	F	2002
To: NCL Winchester				
From: US 11 Cameron St				
(5204) Cork St	0.08	9100	F	2002
To: Kent St				
(5204) Cork St	0.48	11000	F	2002
To: 138-5213 Pleasant Valley Rd				
(5204) Senseny Rd	0.44	11000	F	2002
To: ECL Winchester				
From: Fairmont Ave				
(5206) Commercial St	0.29	4300	F	2002
To: Cameron St				
From: SCL Winchester				
(5207) Shawnee Dr	0.67	5000	F	2002
To: Papermill Rd				
From: SECL Winchester				
(5209) Papermill Rd	0.86	11000	F	2002
To: Pleasant Valley Rd				
(5209) Papermill Rd	0.64	5800	F	2002
To: Weems Ln				
(5209) Papermill Rd	0.58	16000	F	2002
To: Commerce St				
(5209) Loudoun St	0.57	6600	F	2002
To: Gerrard St				
From: Papermill Rd				
(5213) Pleasant Valley Rd	1.22	20000	F	2002
To: Jubal Early Drive				
(5213) Pleasant Valley Rd	0.36	25000	F	2002
To: Millwood Ave				
(5213) Pleasant Valley Rd	0.91	23000	F	2002
To: Cork St				
(5213) Pleasant Valley Rd	0.36	19000	F	2002
To: Berryville Ave				

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City of Winchester				
From National Ave				
5221 Smithfield Ave	0.63	2700	F	2002
To NCL Winchester				
From Cedarmeade Ave				
2nd St		240	F	2002
To Summit Ave				
From Boscawen St				
Amherst St		4300	F	2002
To Braddock St				
From Shawnee Dr				
Battaile Dr		1200	F	2002
To SCL Winchester				
From Wentworth Dr				
Beachcroft Rd		200	F	2002
To Oakwood Ct				
From Valley Ave				
Bellview Ave		1200	F	2002
To Lewis St				
From Loudoun St				
Bond St		260	F	2002
To Cameron St				
From Jackson Ave				
Braddock St		700	F	2002
To Locust Ave				
From Ridge Ave				
Branner Ave		380	F	2002
To Isaac St				
From Green St				
Butler Ave		240	F	2002
To Beau St				
From Old Fort Rd				
Caroline St		260	F	2002
To Marion St				
From Whitlock Ave				
Commerce St		600	F	2002
To Southwerk St				
From Bruce St				
Dunlap St		220	F	2002
To WCL Winchester				
From S. Loudoun St				
E. Southwerk St		2000	F	2002
To S. Cameron St				
From Frederick Ave				
Elm St		3900	F	2002
To Woodland Ave				
From Grove St				
Euclid Ave		490	F	2002
To Woodstock Ln				
From S.Loudoun St				
Glaize Ave		260	F	2002
To Dead End				
From Whitlock Ave				
Handley St		640	F	2002
To Sheridan St				
From Papermill Rd				
Imperial St		200	F	2002
To Superior Ave				

Route	Length	AADT	QA	Year
From Braddock St				
Jackson Ave		440	F	2002
To Pennsylvania Ave				
From Beau St				
Kent St		900	F	2002
To WCL Winchester				
From Boscawen St				
Kent St		6400	F	2002
To Philpot St				
From Parkway Ave				
Leicester St		510	F	2002
To Shawnee Ave				
From Branner Ave				
Marion St		330	F	2002
To Caroline St				
From Hockman Ave				
Massanutten Terrace		580	F	2002
To Middle Rd				
From Elm St				
Orchard Ave		230	F	2002
To ECL Winchester				
From Pall Mall St				
Parkway Ave		1000	F	2002
To Leicester St				
From Richards				
Pennsylvania Ave		590	F	2002
To Jackson Ave				
From Fairmont Ave				
Peyton St		540	F	2002
To Braddock St				
From Dead End				
Pleasant Valley Rd		420	F	2002
To Cedarmeade Ave				
From Cork St				
Purcell Ave		2100	F	2002
To Grove St				
From Millwood Ave				
S.Kent St		1200	F	2002
To Southwerk St				
From Dulles Circle				
Saratoga Dr		440	F	2002
To Lake Dr				
From Leicester St				
Shenandoah Ave		800	F	2002
To Cork St				
From Handley St				
South Werk St		480	F	2002
To Ivy St				
From Wolfe St				
Stewart St		9300	F	2002
To Boscawen St				
From 2Nd St				
Summit Ave		160	F	2002
To 1St Street				
From Jefferson St				
Tennyson Ave		520	F	2002
To Leicester St				

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Route	Length	AADT	QA	Year
From: Boscawen St				
Washington St		4100	F	2002
To: Amherst St				
From: Applecroft Rd				
Wentworth Dr		1300	F	2002
To: Beachcroft Rd				
From: Wood Ave				
Whitter Ave		730	G	2002
To: Ridge Ave				
From: Whitter Ave				
Wood Ave		740	F	2002
To: Lanny Dr				
From: Pine St				
Woodland Ave		1100	F	2002
To: Elm St				
From: Loudoun St				
Wyck St		3700	F	2002
To: Braddock St				